

Appl. No. 09/759,056
Amendment dated February 6, 2006
Reply to Final Office Action of December 9, 2005

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (canceled)

2. (previously presented) An isolated nucleic acid molecule comprising the sequence of (a) nucleotide positions from 49 to 2049 of Figure 1 (SEQ ID NO: 1) or (b) the complement of the nucleotide sequence of (a).

3. (previously presented) An isolated nucleic acid molecule comprising the nucleotide sequence of Figure 1 (SEQ ID NO:1).

4. (previously presented) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes (a) the sequence of amino acid residues from 1 to 667 of Figure 2 (SEQ ID NO:2), or (b) the complement of the sequence of (a).

5-7. (canceled)

8. (previously presented) An isolated nucleic acid molecule comprising (a) the full-length polypeptide coding sequence of the human protein cDNA deposited with the ATCC on January 11, 2000 under ATCC Deposit No. PTA-1181 (DNA148380-2827), or (b) the complement of the sequence of (a).

9. (previously presented) An isolated nucleic acid molecule comprising at least 900 nucleotides and encoding a Stra6 polypeptide comprising DNA that hybridizes under stringent hybridization conditions to the complement of the nucleic acid coding sequence that encodes amino acids 1 to 667 of Figure 2 (SEQ ID NO:2), wherein the isolated nucleic acid is other than DNA encoding a murine stra6 polypeptide.

Appl. No. 09/759,056
Amendment dated February 6, 2006
Reply to Final Office Action of December 9, 2005

10. (previously presented) The isolated nucleic acid molecule of Claim 9, wherein the nucleic acid that encodes amino acids 1 to 667 of Figure 2 (SEQ ID NO:2) comprises nucleotides 49 to 2049 of Figure 1 (SEQ ID NO:1).

11-14. (canceled)

15. (previously presented) A vector comprising the nucleic acid molecule of any one of Claims 2-4 and 8-10.

16. (original) The vector of Claim 15, wherein said nucleic acid molecule is operably linked to control sequences recognized by a host cell transformed with the vector.

17. (canceled)

18. (original) A host cell comprising the vector of Claim 15.

19. (original) The host cell of Claim 18, wherein said cell is a CHO cell.

20. (original) The host cell of Claim 18, wherein said cell is an E. coli.

21. (original) The host cell of Claim 18, wherein said cell is a yeast cell.

22-95. (canceled)

96. (previously presented) An isolated nucleic acid molecule which comprises DNA having at least 99% sequence identity to (a) a DNA molecule encoding a Stra6 polypeptide comprising the sequence of amino acid residues 1 to 667 of Figure 2 (SEQ ID NO:2); wherein the isolated nucleic acid molecule encodes a polypeptide that comprises the amino acid sequence that corresponds to amino acids at positions 54 to 69,

Appl. No. 09/759,056
Amendment dated February 6, 2006
Reply to Final Office Action of December 9, 2005

102 to 119, 148 to 166, 207 to 222, 301 to 320, 364 to 380, 431 to 451, 474 to 489, and 512 to 531 of SEQ ID NO:2 and is expressed on the cell surface, or the complement of (a).

97. (previously presented) The isolated nucleic acid of claim 96, comprising the sequence of (a) nucleotide positions from 49 to 2049 of Figure 1 (SEQ ID NO:1) or (b) the complement of the nucleotide sequence of (a).

98. (cancelled)

99. (previously presented) An isolated nucleic acid molecule which comprises DNA having at least 99% sequence identity to (a) the full length polypeptide coding sequence of the human cDNA deposited with the ATCC on January 11, 2000 under ATCC Deposit No. PTA-1181 (DNA148380-2827), wherein the nucleic acid molecule encodes a polypeptide that comprises the amino acid sequence that corresponds to amino acids at positions 54 to 69, 102 to 119, 148 to 166, 207 to 222, 301 to 320, 364 to 380, 431 to 451, 474 to 489, and 512 to 531 of SEQ ID NO:2 and is expressed on the cell surface; or (b) the complement of (a).

100. (previously presented) A vector comprising the nucleic acid of any one of claims 96-99.

101. (previously presented) A host cell comprising the vector of claim 100.

102. (previously presented) An isolated nucleic acid molecule which comprises DNA having at least 99% sequence identity to (a) a DNA molecule encoding a Stra6 polypeptide comprising the sequence of amino acid residues 1 to 667 of Figure 2 (SEQ ID NO:2), wherein the isolated nucleic acid molecule encodes a polypeptide which binds an antibody raised against a Stra6 polypeptide comprising the sequence of amino acid residues 532 to 667 of Figure 2 (SEQ ID NO:2), and that is expressed on the cell

Appl. No. 09/759,056
Amendment dated February 6, 2006
Reply to Final Office Action of December 9, 2005

surface; or (b) the complement of the DNA molecule of (a).

103. (previously presented) An isolated nucleic acid molecule comprising DNA which comprises at least 99% sequence identity to (a) the full length polypeptide coding sequence of the human cDNA deposited with the ATCC on January 11, 2000 under ATCC Deposit No. PTA-1181 (DNA148380-2827), wherein the isolated nucleic acid molecule encodes a polypeptide which binds an antibody raised against a Stra6 polypeptide comprising the sequence of amino acid residues 532 to 667 of Figure 2 (SEQ ID NO:2), and that is expressed on the cell surface; or (b) the complement of the DNA molecule of (a).

104. (previously presented) A vector comprising the nucleic acid of any one of claims 102-103.

105. (previously presented) A host cell comprising the vector of claim 100.

106. (previously presented) An isolated nucleic acid molecule which comprises DNA having at least 99% sequence identity to (a) nucleotide positions from 49 to 2049 of Figure 1 (SEQ ID NO:1) and encodes an active Stra6 polypeptide or (b) the complement of the nucleotide sequence of (a).

107. (previously presented) An isolated nucleic acid which comprises DNA having at least 95% sequence identity to a DNA molecule encoding a Stra6 polypeptide comprising the amino acid sequence of amino acids 1 to 667 of Figure 2 (SEQ ID NO:2), wherein the isolated nucleic acid encodes a native sequence Stra6 polypeptide.

108. (previously presented) The isolated nucleic acid of claim 107 comprising the nucleotide sequence of SEQ ID NO:1 or complement thereof.

109. (previously presented) The isolated nucleic acid of claim 107 comprising

Appl. No. 09/759,056
Amendment dated February 6, 2006
Reply to Final Office Action of December 9, 2005

the nucleotide sequence of (a) nucleotide position 49 to 2049 of SEQ ID NO:1, or (b) the complement thereof.

110. (previously presented) An isolated nucleic acid molecule which comprises DNA having at least 99% sequence identity to (a) a DNA molecule encoding a Stra6 polypeptide comprising the sequence of amino acid residues 1 to 667 of Figure 2 (SEQ ID NO:2); wherein the isolated nucleic acid molecule encodes a native sequence Stra6 polypeptide, or the complement of (a).

111. (previously presented) The isolated nucleic acid of claim 110 comprising the nucleotide sequence of SEQ ID NO:1 or complement thereof.

112. (previously presented) The isolated nucleic acid of claim 110, comprising the nucleotide sequence of nucleotide position 49 to 2049 of SEQ ID NO:1 or complement thereof.